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	Application No.	Applicant(s)	1
	10/629,567	SOHDA ET AL	
Notice of Allowability	Examin r	Art Unit	
	Nikita Wells	2881	
Th MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-88 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is	n this application. If not included nunication will be mailed in due cour	se. THIS
1. $\boxtimes$ This communication is responsive to <u>Application filed 30</u>	<i>July 2003</i> .		
2. The allowed claim(s) is/are <u>1-12</u> .			
3. $\boxtimes$ The drawings filed on $\underline{30~July~2003}$ are accepted by the B	Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority of a)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 1.  Copies of the certified copies of the priority of 1.  Certified copies not received:</li> </ol> </li> </ul>	ve been received. ve been received in Applicati	on No	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments
5. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi			CE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") me	ust be submitted.		
(a) $\square$ including changes required by the Notice of Draftspe	rson's Patent Drawing Revie	w ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not the bac FR 1.121(d).	k) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MAT T FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note OLOGICAL MATERIAL.	the
Attachm nt(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948	) 6. ☐ Interview S Paper No	nformal Patent Application (PTO-15 Summary (PTO-413), ./Mail Date s Amendment/Comment	2)
<ul> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date <u>061004</u></li> <li>4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>		s Statement of Reasons for Allowan	ice
		Nikita Wells Primary Examiner Art Unit: 2881	

## **Detailed Action**

## Allowable Subject Matter

- 1. Claims 1-12 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

With respect to the independent claims 1, 8, and 9, prior art fails to disclose or make obvious, in addition to the accompanying features of the claims, an electron beam writing system comprising of an electron source; an electron optics system irradiating for scanning an electron beam emitted from said electron source on a sample wherein the deflection means has at least two different deflection speeds and an objective lens to form a desired pattern on said sample; including in addition a function whereby the electron beam is moved by high speed scanning with said deflection means repeating the formation of a patterned beam; and a function moving said electron beam on said mark for beam correction by low speed scanning with said deflection means in synchronization with one cycle of said repetition.

The dependent claims 2-7 and 10-12 are allowable by virtue of their dependence upon the independent claims 1 and 9, respectively.

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pinto et al. (6,566,885 B1) disclose multiple directional scanning with charged particle beams of test structures on semiconductor integrated circuits. Meisberger et al. (5,578,821) disclose a charged particle beam scanning system and automatic inspection system including wafers and masks used in microcircuit fabrication. Nakasuji et al. disclose

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(2002/0148961 A1) an electron beam apparatus having a plurality of optical systems for

scanning and irradiating a sample and detecting the respective secondary electrons emitted from

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each of the respective regions of the sample.

4. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The

examiner can normally be reached on 8:30 AM - 5:00 PM. If attempts to reach the examiner by

telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571) 272-

2477. The central fax phone number for the organization where this application or proceeding is

assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this

application or proceeding should be directed to the receptionist whose telephone number is (703)

308-0956.

6. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nikita Wells, Primary Examiner

Art Unit 2881 June 10, 2004